

## AMENDMENT

### In The Claims

Please amend the claims as follows:

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1. (Currently amended) An ultra wide band network, comprising: In a network having  
a master device and a plurality of slave devices in network communication with  
said master device, the communication comprising a multiplicity of ultra wide band  
signals;

a Medium Access Control layer protocol for transmission and reception of  
network packets, comprising:

- A1
- a Time Division Multiple Access frame definition having,
  - a start-of-frame section,
  - a command section,
  - a data slot section containing a plurality of variable length slots,
  - a synchronization slot, and
  - a timestamp slot.

2. (Currently amended) The ultra wide band network of claim 1, wherein the ~~The~~  
Medium Access Control layer protocol ~~as recited in claim 1, wherein said protocol is~~  
configured to implement dynamic requisition of variable length data slots within said  
frame.

3. (Currently amended) The ultra wide band network of claim 1, wherein the ~~The~~  
Medium Access Control layer protocol ~~as recited in claim 2, wherein said protocol~~ is  
configured to implement dynamic allocation of said variable-length data slots.

4. (Currently amended) The ultra wide band network of claim 1, wherein the ~~The~~  
Medium Access Control layer protocol ~~as recited in claim 3, wherein said protocol~~ is  
configured to implement dynamic reallocation of said variable-length data slots.

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5. (Currently amended) The ultra wide band network of claim 1, ~~The Medium Access~~  
~~Control layer as recited in claim 1,~~ wherein said master device and slave device are  
further configured to coordinate a scheduled switch from a first set of data slot  
parameters to second set of data slot parameters.

6. (Currently amended) The ultra wide band network of claim 5, ~~The Medium Access~~  
~~Control layer protocol as recited in claim 5,~~ wherein said timestamp slot further  
comprises a bit-field which is incremented by a master timestamp counter.

7. (Currently amended) The ultra wide band network of claim 6, ~~The Medium Access~~  
~~Control layer protocol as recited in claim 6,~~ wherein each of said slave devices is  
configured to maintain a local copy of said master timestamp counter.

8. (Currently amended) The ultra wide band network of claim 1, ~~The Medium Access~~  
~~Control layer protocol as recited in claim 1,~~ wherein said variable-length data slots of  
said frame have a granularity of one bit.

9. (Currently amended) A networking system, comprising:

a master device;

a plurality of slave devices in network communication with said master device,

the network communication comprising a multiplicity of ultra wide band signals;

a Medium Access Control layer protocol capable of transmission and reception of a plurality of network packets communicated between said master device and said slave devices; and

a Time Division Multiple Access frame definition having,

a data slot section containing a plurality of variable-length data slots,

a synchronization slot, and

a timestamp slot.

10. (Original) The networking system as recited in claim 9 further comprising a bit-field which is configured to be incremented by said master device in a modulo-N manner by a timestamp counter within said timestamp slot.

11. (Original) The networking system as recited in claim 10, wherein each of said slave devices is configured to provide a local copy of said master timestamp counter which allows slave devices to identify a scheduled frame time.

12. (Original) The network system as recited in claim 11, wherein each slave device is structured to coordinate a schedule switch from a first set of data slot parameters to a second set of data slot parameters.

13. (Original) A networking system as recited in claim 11, wherein said protocol further is structured to implement dynamic reallocation of said variable-length data slots.

14. (Currently amended) A method for scheduling the assignment of variable length data slots in a network system having a master device and a plurality of slave devices in network communication with said master device the network communication comprising a multiplicity of ultra wide band signals, comprising;

AI providing a Time Division Multiple Access frame definition comprising a synchronization slot and a timestamp slot, and a data slot section having a plurality of variable-length data slots; and

determining a schedule time to communicate the assignment and reallocation of said variable-length data slots to each of said slave devices.

15. (Original) The method of claim 14, further comprising scheduling the assigning and reallocation from a first set of data slot parameters to a second set of data slot parameters with a scheduling frame transmitted at said scheduled time.

16. (Original) The method of claim 15, further comprising switching the data slot parameters for each participating slave device at said scheduled time.